

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
)  
Hirofumi MURATANI )  
) Group Art Unit:  
Application No.: Not Yet Assigned )  
) Examiner:  
Filed: December 23, 2003 )  
)  
For: DIGITAL WATERMARK )  
EMBEDDING APPARATUS, )  
METHOD AND PROGRAM, )  
AND DIGITAL WATERMARK )  
DETECTION APPARATUS,  
METHOD AND PROGRAM

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§1.56 and 1.97(b), applicant brings to the Examiner's attention the documents listed on attached Form PTO-1449. With the exception of the U.S. Patent Application Publication, copies of the listed documents are attached. Applicant respectfully requests that the Examiner consider the documents listed on attached Form PTO-1449 and indicate that they were considered by making an appropriate notation on this form.

This Information Disclosure Statement is being filed with the above-referenced application.

The following is a concise statement of relevance of the non-English language documents:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER <sup>LLP</sup>

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

1. Iwanami Suugaku Jitem, 392 "Homotopii Riron"; Nikon Suugaku Kai; 1985 pp. 1142-1151 discloses mathematical concepts relating to homotopy theory.

2. Journal des Sciences Militaires, vol IX, pp. 5-38, Jan. 1883, discloses design criteria for cryptographical systems. It states that the systems should be secure even if algorithms of the cryptography are disclosed. Such criteria are restricted to cryptographic systems.

3 Japanese Patent Application KOKAI Publication No. 2002 142094 - The relevance of this document is discussed at pages 4 and 15 of the specification of the present application. An English language abstract of this document is enclosed.

4 Iwanami Mathematic Dictionary 3<sup>rd</sup> Edition, Topological Space, pp. 22-34 - The relevance of this document is discussed at page 3 of the specification of the present application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER <sup>LLP</sup>

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

If there is any fee due in connection with the filing of this Statement, please  
charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: December 23, 2003

By: 

Richard V. Burgujian  
Reg. No. 31,744

Enclosures  
RVB/FPD/mld

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
[www.finnegan.com](http://www.finnegan.com)

## INFORMATION DISCLOSURE CITATION

Atty. Docket No. 04329.3209	Application No.
Applicant Hirofumi MURATANI	
Filing Date December 23, 2003	Group:

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
		US 2002/0071593 A1	June 13, 2002	Muratani			

FOREIGN PATENT DOCUMENTS							
		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
		2002-142094	May 17, 2002	Japan			Abstract Only

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	KUTTER; "Introduction to Watermarking Techniques" Information Hiding Techniques for Steganography and Digital Watermarking, Chapter 5, pp. 97-121, 2000
	Iwanami Suugaku Jitem, 392 "Homotopii Riron"; Nikon Suugaku Kai; pp. 1142-1151, 1985
	KERCKHOFFS: Journal des Sciences Militaires, vol IX, pp. 5-38, Jan. 1883,
	Iwanami Mathematic Dictionary 3 <sup>rd</sup> Edition, Topological Space, pp. 22-34

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce